



PATENT  
Atty. Dkt. WEAT/0528.P1

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:  
Vail III

Serial No.: 10/735,918

**Confirmation No.: 3830**

Filed: December 15, 2003

**For:** Methods and Apparatus for Cementing Drill Strings in Place for One Pass Drilling and Completion of Oil and Gas Wells

MAIL STOP AMENDMENT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Group Art Unit: 3672

**Examiner:** Unknown

Customer No.: 36735

**CERTIFICATE OF MAILING**  
**37 CFR 1.8**

Dear Sir:

# **INFORMATION DISCLOSURE STATEMENT**

The Applicant, and the Attorney who signs below on the basis of the information supplied by the inventor and the information in his file, submit herewith patents, publications, or other information of which they are aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

While the information submitted in this Information Disclosure Statement may be material pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that any patent, publication, or other information referred to therein is prior art for this invention unless specifically designated as such.

In accordance with 37 CFR § 1.97, this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possibly material information as defined under 37 CFR § 1.56(a) exists.

The patents and/or publications submitted herewith are set forth on the attached Form PTO-1449.

If the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/WEAT/0528.P1/WBP.

Respectfully submitted,

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/735,918
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First Named Inventor	Vail III
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Examiner Name	Unknown
Attorney Docket Number	WEAT/0528.P1

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July 30, 2004

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
A1	US-6742606 B2		06/01/2004	Melcalfe, et al.	
A2	US-6702040 B1		03/09/2004	Sensenig	
A3	US-6668937		12/30/2003	Murray	
A4	US6634430		10/21/2003	Dawson et al.	
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A6	US-6543552 B1		04/08/2003	Melcalfe, et al.	
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A8	US-6457532 B1		10/01/2002	Simpson	
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A11	US-6189616 B1		02/20/2001	Gano, et al.	
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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
B1	DE 3 213 464		10/13/1983	Reimer		
B2	DE 4 133 802		10/22/1992	Andrejewski		
B3	EP 0 235 105		09/02/1987	Kjell-Oue		
B4	EP 0 265 344		04/27/1988	Legendre		
B5	EP 0 462 618		12/27/1991	Karlsson		

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A20	US-5887655		03/30/1999	Haugen, et al.	
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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
B6	EP 0 554 568		08/11/1993	Tibbits, et al.		
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		Number-Kind Code <sup>2</sup> (if known)			
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	A50	US-4681158	07/21/1987	Pennison	
	A51	US-4620600	11/04/1986	Persson	
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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B10	GB 1 469 661	04/06/1977	Swobda, et al.		
	B11	GB 1 277 461	06/03/1972			
	B12	GB 1 448 304	09/02/1976			
	B13	GB 1 582 392	01/07/1981			

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A58	US-4446745		05/08/1994	Stone, et al.	
A59	US-4396076		08/02/1983	Inoue	
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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
B14	GB 2 053 088		02/04/1981	Gebhart		
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B17	GB 2 320 270		06/17/1998	Armell, et al.		
B18	GB 2 333 542		07/28/1999	Kirk		

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A77	US-3353599		11/21/1967	Swift	
A78	US-3191680		06/29/1965	Vincent	
A79	US-3191677		06/29/1965	Kinley	
A80	US-3169592		02/26/1965	Kammerer	
A81	US-3102599		09/03/1963	Hillburn	
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A90	US-2499630		03/07/1950	Clark	
A91	US-2324679		07/20/1943	Cox	
A92	US2295803		09/15/1940	O'Leary	
A93	US-2216895		10/08/1940	Stokes	
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B19	GB 2 365 463		02/20/2002	Giancarlo		
B20	GB 2 382 361		05/28/2003	Hewson, et al.		
B21	GB 2 216 926		10/18/1989	Haloid		
B22	GB 2 348 223		09/27/2000	Cook, et al.		

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A95		US-2049450	08/04/1936	Johnson	
A96		US-2017451	10/15/1935	Wickersham	
A97		US-1981525	11/20/1934	Price	
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A99		US-1342424	06/08/1920	Cotten	
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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B23	GB 540 027	10/02/1941			
	B24	GB 7 928 86	04/12/1958			
	B25	GB 8 388 33	06/22/1960			
	B26	GB 9 977 21	07/07/1965	Garnier, et al.		

Examiner

Date Considered



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/735,918
Filing Date	December 15, 2003
First Named Inventor	Vail III
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0528.P1

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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
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B51	WO 93/24728		12/09/1993	Simpson		

Examiner

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/735,918
Filing Date	December 15, 2003
First Named Inventor	Vail III
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0528.P1

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**FOREIGN PATENT DOCUMENTS**

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
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	B54	WO 98/09053	03/05/1998	Murray, et al.		
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	B50	FR 2053088	07/20/1970	Gottwald		
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	B74					
	B75					
	B76					
	B77					
	B78					

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Application Number	10/735,918
Filing Date	December 15, 2003
First Named Inventor	Vail III
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0528.P1

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### NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	C1	HAHN, ET AL., "Simultaneous Drill and Case Technology - Case Histories, Status and Options for Further Development," Society of Petroleum Engineers, IADC/SPE Drilling Conference, New Orleans, LA Feb. 23-25, 2000 pp. 1-9.	
	C2	M.B. STONE and J. SMITH, "Expandable Tubulars and Casing Drilling are Options" Drilling Contractor, January/February 2002, pp. 52.	
	C3	M. GELFGAT, "Retractable Bits Development and Application" Transactions of the ASME, Vol. 120, June (1998), pp. 124-130.	
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Application Number

10/735,918

Filing Date

December 15, 2003

First Named Inventor

Vail III

Group Art Unit

3672

Examiner Name

Unknown

Attorney Docket Number

WEAT/0528.P1

Submission Date

July 30, 2004

### NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	C13	United States Patent Application 10/794,797, filed March 5, 2004 (WEAT/0371)	
	C14	United States Patent Application 10/767,322, filed January 29, 2004 (WEAT/0343)	
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/735,918
Filing Date	December 15, 2003
First Named Inventor	Vail III
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0528.P1

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*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
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Examiner

Date Considered

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Substitute for form 1449A/PTO		Application Number	10/735,918
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Filing Date	December 15, 2003
		First Named Inventor	Vail III
		Group Art Unit	3672
		Examiner Name	Unknown
		Attorney Docket Number	WEAT/0528.P1
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		Submission Date	July 30, 2004

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*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
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Examiner				Date Considered			
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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First Named Inventor	Vail III
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0528.P1

Submission Date

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*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
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Examiner

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*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
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Examiner

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Group Art Unit	3672
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**U.S. Patent Documents**

*Examiner Initial	Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
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Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>		Application Number	10/735,918
		Filing Date	December 15, 2003
		First Named Inventor	Vail III
		Group Art Unit	3672
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<b>U.S. Patent Documents</b>							
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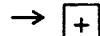
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	B77	WO 01/81708	11-01-2001	WIPO	E21B	10/32	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B78	WO 01/79650	10-25-2001	WIPO	E21B	10/60	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B79	WO 01/46550	06-28-2001	WIPO	E21B	7/20	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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	B81	WO 00/50730	08-31-2000	WIPO	E21B	10/66	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B82	WO 00/28188	05-18-2000	WIPO	E21B	7/06	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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	C50	Coronado, et al., "Development Of A One-Trip ECP Cement Inflation And Stage Cementing System For Open Hole Completions," IADC/SPE Paper 39345, IADC/SPE Drilling Conference, March 3-6, 1998, pp. 473-481
	C51	Coronado, et al., "A One-Trip External-Casing-Packer Cement-Inflation And Stage-Cementing System," Journal Of Petroleum Technology, August 1998, pp. 76-77
	C52	Quigley, "Coiled Tubing And Its Applications," SPE Short Course, Houston, Texas, October 3, 1999, 9 pages
	C53	Bayfiled, et al., "Burst And Collapse Of A Sealed Multilateral Junction: Numerical Simulations," SPE/IADC Paper 52873, SPE/IADC Drilling Conference, March 9-11, 1999, 8 pages
	C54	Marker, et al. "Anaconda: Joint Development Project Leads To Digitally Controlled Composite Coiled Tubing Drilling System," SPE paper 60750, SPE/ICOTA Coiled Tubing Roundtable, April 5-6, 2000, pp 1-9
	C55	Cales, et al., "Subsidence Remediation – Extending Well Life Through The Use Of Solid Expandable Casing Systems, AADE Paper 01-NC-HO-24, American Association Of Drilling Engineers, March 2001 Conference, pp. 1-16
	C56	Coats, et al., "The Hybrid Drilling Unite: An Overview Of an Integrated Composite Coiled Tubing And Hydraulic Workover Drilling System," SPE Paper 74349, SPE International Petroleum Conference And Exhibition, February 10-12, 2002, pp. 1-7
	C57	Sander, et al., "Project Management And Technology Provide Enhanced Performance For Shallow Horizontal Wells," IADC/SPE Paper 74466, IADC/SPE Drilling Conference, February 26-28, 2002, pp. 1-9
	C58	Coats, et al., "The Hybrid Drilling System: Incorporating Composite Coiled Tubing And Hydraulic Workover Technologies Into One Integrated Drilling System," IADC/SPE Paper 74538, IADC/SPE Drilling Conference, February 26-28, 2002, pp 1-7
	C59	Galloway, "Rotary Drilling With Casing – A Field Proven Method Of Reducing Wellbore Construction Cost," Paper WOCD-0306092, World Oil Casing Drilling Technical Conference, March 6-7, 2003, pp. 1-7

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Substitute for form 1449A/PTO		Application Number	10/735,918
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Filing Date	December 15, 2003
(Use as many sheets as necessary)		First Named Inventor	Vail III
		Group Art Unit	3672
		Examiner Name	Unknown
		Attorney Docket Number	WEAT/0528.P1
Sheet	27	of	29
		Submission Date	July 30, 2004

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*Examiner Initial	Including Author, Title, Date, Pertinent Pages, Etc.		
	C60	Fontenot, et al., "New Rig Design Enhances Casing Drilling Operations In Lobo Trend," paper WOCD-0306-04, World Oil Casing Drilling Technical Conference, March 6-7, 2003, pp. 1-13	
	C61	McKay, et al., "New Developments In The Technology Of Drilling With Casing: Utilizing A Displaceable DrillShoe Tool," Paper WOCD-0306-05, World Oil Casing Drilling Technical Conference, March 6-7, 2003, pp. 1-11	
	C62	Sutriono – Santos, et al., "Drilling With Casing Advances To Floating Drilling Unit With Surface BOP Employed," Paper WOCD-0307-01, World Oil Casing Drilling Technical Conference, March 6-7, 2003, pp. 1-7	
	C63	Vincent, et al., "Liner And Casing Drilling – Case Histories And Technology," Paper WOCD-0307-02, World Oil Casing Drilling Technical Conference, March 6-7, 2003, pp. 1-20	
	C64	Maute, "Electrical Logging: State-of-the Art," The Log Analyst, May-June 1992, pp. 206-27	
	C65	Tessari, et al., "Retrievable Tools Provide Flexibility for Casing Drilling," Paper No. WOCD-0306-01, World Oil Casing Drilling Technical Conference, 2003, pp. 1-11	
	C66	Evans, et al., "Development And Testing Of An Economical Casing Connection For Use In Drilling Operations," paper WOCD-0306-03, World Oil Casing Drilling Technical Conference, March 6-7, 2003, pp. 1-10	
	C67	Rotary Drilling, Open-Hole Fishing, Unit III, Lesson 2, Third Edition	
	C68	Rotary Drilling, Casing and Cementing, Unit II, Lesson 4, Second Edition	
	C69	Rotary Drilling, Drilling a Straight Hole, Unit II, Lesson 3, Second Edition	
	C70	Rotary Drilling, The Bit, Unit I, Lesson 2, Third Edition	
	C71	Rotary Drilling, Blowout Prevention, Unit III, Lesson 3, Third Edition	
	C72	Well Servicing and Workover, Artificial Lift Methods, Lesson 5, Petroleum Extension Service, The University of Texas at Austin, Austin, Texas	
	C73	Rotary Drilling, Drilling Mud, Unit II, Lesson 2, Third Edition	

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C74	Rotary Drilling, Subsea Blowout Preventers and Marine Riser Systems, Unit III, Lesson 4
C75	Well Servicing and Workover, Control of Formation Pressure, Lesson 9, Petroleum Extension Service, The University of Texas at Austin, Austin, Texas
C76	Well Servicing and Workover, Production Rig Equipment, Lesson 6, Petroleum Extension Service, The University of Texas at Austin, Austin, Texas
C77	Well Servicing and Workover, Petroleum Geology and Reservoirs, Lesson 2, Petroleum Extension Service, The University of Texas at Austin, Austin, Texas
C78	Well Servicing and Workover, Well Logging Methods, Lesson 3, Petroleum Extension Service, The University of Texas at Austin, Austin, Texas
C79	Well Servicing and Workover, Introduction to Oil Well Service and Workover, Lesson 1, Petroleum Extension Service, The University of Texas at Austin, Austin, Texas
C80	Well Servicing and Workover, Well Completion Methods, Lesson 4, Petroleum Extension Service, The University of Texas at Austin, Austin, Texas
C81	Rotary Drilling, Controlled Directional Drilling, Unit III, Lesson 1, Third Edition
C82	Well Servicing and Workover, Well Stimulation Treatments, Lesson 11, Petroleum Extension Service, The University of Texas at Austin, Austin, Texas
C83	Rotary Drilling, Making Hole, Unit II, Lesson 1, Second Edition
C84	Well Servicing and Workover, Well Cleanout and Repair Methods, Lesson 8, Petroleum Extension Service, The University of Texas at Austin, Austin, Texas
C85	Well Servicing and Workover, Well Servicing and Repair, Lesson 7, Petroleum Extension Service, The University of Texas at Austin, Austin, Texas
C86	Rotary Drilling, Circulating Systems, Unit I, Lesson 8, Third Edition
C87	Well Servicing and Workover, Well Service and Workover Profitability, Lesson 12, Petroleum Extension Service, The University of Texas at Austin, Austin, Texas
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